User manual
ALFA 802 and ALFANET 802
Off-delay Timer-unit
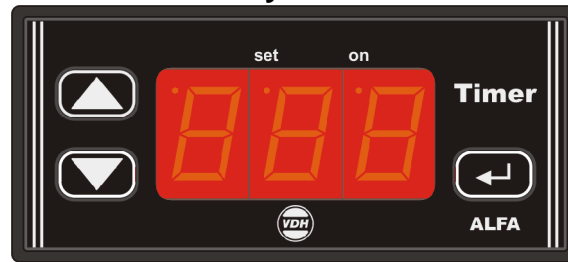
VDH doc. 060350	**Version: v1.1**	**Date: 26-05-2008**
Software: ALFA 802 Flash	File: Do060350.wpd	Range: 0-999

* <u>Operation.</u>

The **ALFA(NET) 802** is a panel mounting timer-unit, with a off-delay relay function. The off-delay time is set by the keys on the front panel. The timer-unit has a range from 0-999 minutes, seconds or hours (P01). The timer-unit has also a contact-input for starting, stopping or waiting the unit (P02).
The **ALFA_NET_ 802** is provided with a RS 485 network connection, to readout or set the unit on the PC with ALFANET software. by using a ALFANET PC-Interface.

* <u>Installation.</u>

On the topside of the **ALFA(NET) 802** can be read how to connect this unit, such as powersupply, relay-output, contact input and network.
After power up the **ALFA(NET) 802** and the self test is finished the unit displays the off-delay time. As the output relay is activated the LED 'on' in the display lits to indicate this.

* <u>Control.</u>

The **ALFA(NET) 802** Timer-unit can by controlled by three pushbuttons on the front. These keys are:
    [↵] SET   - view / change setting.
    [▲] UP   - increase setting.
    [▼] DOWN - decrease setting.

* <u>Changing current off-delay time.</u>

Push the **SET** key, the LED 'set' starts blinking. Release the **SET** key. Now push the **SET** key again and together with the **UP** or **DOWN** keys the current off-delay time can by changed. A few seconds after releasing the keys the timer-unit returns to it's normal operation, the LED 'set' switches off.

* <u>Start, Stop and Wait function of the off-delay timer.</u>

Push the **UP** key to start the timer, the LED 'on' lits and the relay will be activated. During the off-delay time the timer unit can be set in a waiting mode by pressing the **DOWN** key. During this waiting mode the relay will deactivate as P03=0 or stays active as P03=1. During the waiting mode the LED 'on' is blinking and the remaining time is on hold. To continue the off-delay timer, push the **UP** key again. As in the other hand the **DOWN** key is pressed again (second time), than the off-delay timer is stopped, the display shows for 5 seconds '000' and the LED 'on' goes off. The timer stops completely and after 5 seconds the display shows the set off-delay time again in the display. So the unit is ready for the next start.

* **Setting internal parameters.**

By pushing the **DOWN** key for more then 10 seconds, you enter the 'internal programming menu'. In the left display the upper and lower segments are blinking. With the **UP** and **DOWN** keys the required parameter can be selected (see parameter table).

If the required parameter is selected, the value can by read-out by pushing the **SET** key. By pushing simultaneously the **SET** key and the **UP** or **DOWN** key the parameter value can be changed.

If no key is pushed for 20 seconds, the **ALFA(NET) 802** will return to it's normal operation and the changes are saved.

* **Parameters ALFA 802.**

Para-meter	Description Parameter	Range	Default value
01	Unit of time 　0 = minutes 　1 = seconds 　2 = hours	0...2	0
02	Contact-input mode 　0 = Not active 　1 = Start only at closing the input (puls contact) 　2 = Stop only at closing the input (puls contact) 　3 = Start/Wait at closing the input (puls contact) 　4 = Stop/Stop at closing the input (puls contact) 　5 = Wait as long as input conct is closed	0...5	0
03	Waiting mode 　0 = Relay de-actives during waiting 　1 =Relay stays active during waiting	0...1	0
04	Display mode 　0 = Display shows set off-delay time as the time is not active 　1 = Display extinguishes as the timer is not active 　2 = Display stays on '000' as the off-timer has run out. Restart only possible as the power supply has been taken interrupted	0...2	0
05	Down-key mode: 　0 = Pushing the Down-key during running the timer the timer is set in the waiting mode (Pushing the Down-key for the second time the timer will reset) 　1 = Pushing the Down-key the timer unit will reset directly	0...1	0
06	Up-key mode: 　0 = Start timer with Up-key possible 　1 = Start timer with Up-key not possible	0...1	0
10	Auto reset relay after end off time 　0 = No auto reset	0..99 sec	0
90 95 96 97 98 99	Network number (only at ALFANET 802) Software version Production year Production week Serial number (x 1000) Serial number (units)	1...250 - 00...99 1...52 0...250 0...999	1 - - - - -

Remark:　In case that the timer-unit is set on minutes (P01= 0), the display shows the last minute of the current rest time in seconds. To indicate this, the lower segment of the first digit is lit and the other digits show the time in seconds.

* Error messages.

In the display of the **ALFA(NET) 802** the following error messages can appear:
>   **EE**   - Setting are lost.
>   Solution: Reprogram the settings.

* Technical details.

Type	:ALFA 802 Off-delay Timer-unit or
	ALFANET 802 Off-delay Timer-unit with network
Range	:0-999 min/sec/hrs
Supply	:230 Vac (24Vdc or 12Vdc on request)
Relay	:SPDT 250V/16A(C-NO), 8A(C-NC) (cos phi=1)
Input	:Potential free input contact.
Communication	:RS 485-network, only at ALFANET 802.
	(3-wire shielded cable: A, B and Gnd)
Control	:Thru pushbuttons on front.
Front	:Polycarbonate IP65
Dimensions	:35 x 77 x 71,5mm (hwd)
Panel cutout	:29 x 71mm (hw)

- Provided with memory protection during power failure.
- Connection with screw terminals on thebackside.
- Equipped with self test function.
- Special versions are available upon request.

* Dimensions.
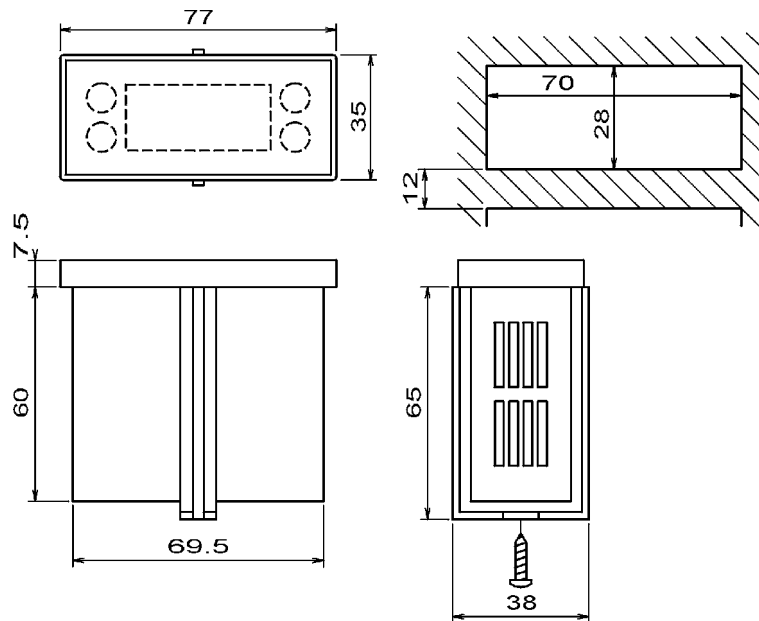
* Address.

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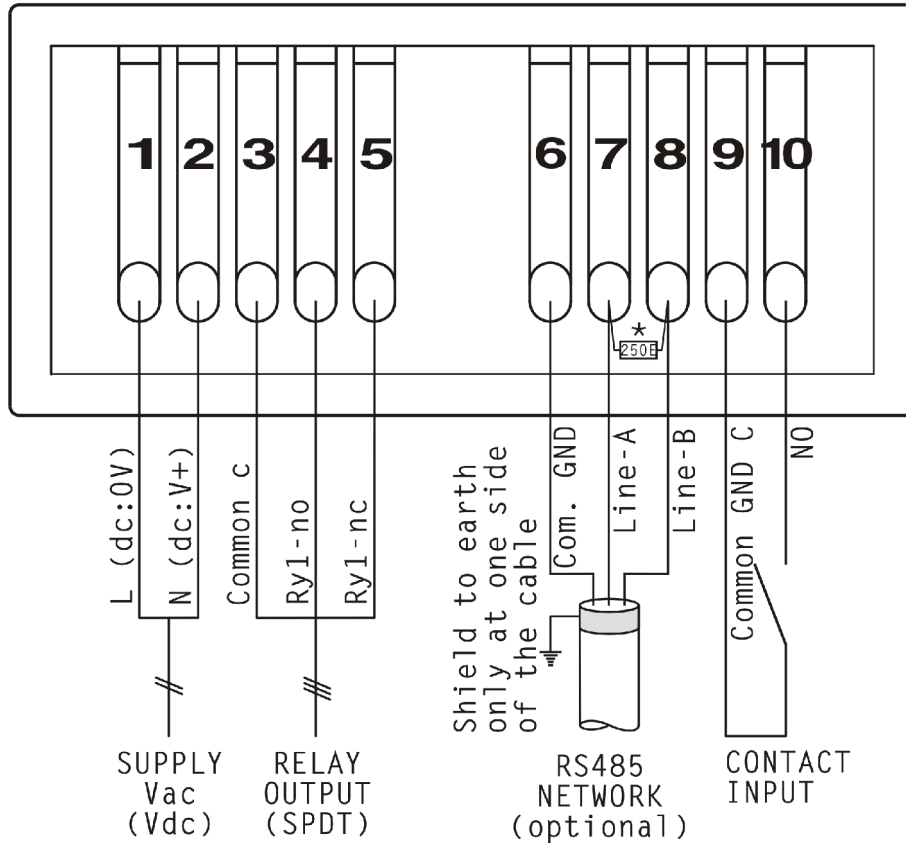The Netherlands

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*   **Connections.**

ALFA(NET) 80X-series

*)REMARK: To terminate RS485-Network
Connect a 250 Ohm resistor between
Line-A and Line-B at both cable-ends

1 2 3 4 5   6 7 8 9 10

*
250E

L (dc:0V)
N (dc:V+)
Common c
Ry1-no
Ry1-nc
Shield to earth only at one side of the cable
Com. GND
Line-A
Line-B
Common GND C
NO

SUPPLY
Vac
(Vdc)

RELAY
OUTPUT
(SPDT)

RS485
NETWORK
(optional)

CONTACT
INPUT

*   **Alfanet network connections.**

RS 485 NETWORK CONNECTIONS 3-wired shielded:

Controller-1	One of the Controllers can be the PC-Interface	Controller-2	- - - - - - -	Controller-x
A	B	GND		A	B	GND		A	B	GND
RS485		RS485		RS485

Line-A(HI)
*-□R=250E
Line-B(Lo)
GND(0V)
Shield to Earth

Line-A(HI)
*-□R=250E
Line-B(Lo)
GND (0V)
Shield to Earth

Line-A(HI)
*-□R=250E
Line-B(Lo)
GND (0V)

Network connections:
A (HI) connected to A (HI)
B (LO) connected to B (LO)
GND (0V) connected to GND (0V)
Shield to Earth only on one side of cable

Endpoint Network *

Network-cable
3-wire shielded
min. 0,75mm²

Connection-point Network

Network-cable
3-wire shielded
min. 0,75mm²

Endpoint Network *

*) Place Terminator Resistor
of 250 Ohm at both ends of
the RS485-cable, between
line-A and line-B.

Max Cable length 1KM

Note: 1) NETWORK CABLE MAY NOT HAVE ANY SIDE BRANCHES (for this use Repeaters).

VDH